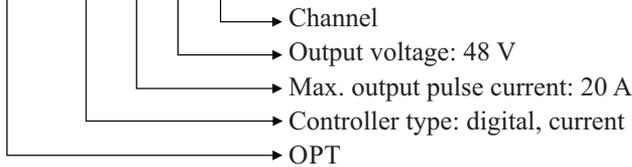


Overdrive Controller

Model No

OPT - DPH 200 48 - 4

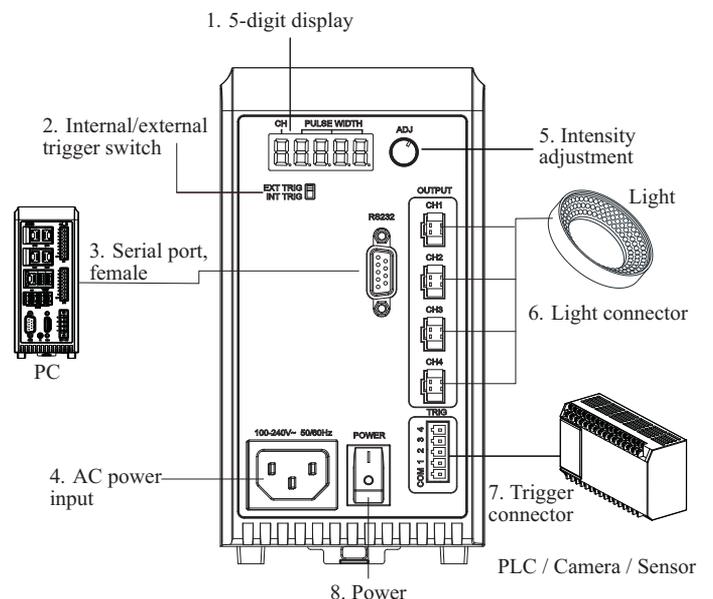


Product Features

- 1 Rs232 communication
- 2 For strobing LED illuminations with higher brightness; the width of the output pulses can be set from 1 to 1023 μ s.
- 3 Multiple channels can be controlled simultaneously.
- 4 Internal self-trigger function, adjustable from 15 to 1000 ms.
- 5 Trigger signal input: connect an external signal source (e.g. a camera trigger signal) for synchronized strobing of the illumination device.
- 6 Easy to install: screw mount or DIN rail are available .

Device Overview

NO.	Item	Description
1	5-digit display	The first number indicates the channel and the other 4 numbers show related data
2	Internal / external trigger switch	EXT TRIG: External trigger INT TRIG: Internal trigger
3	Serial port, female	To connect with PC via RS232
4	AC power input	100 - 240 V AC, 50/60 Hz
5	Intensity adjustment	Adjusts the intensity and width of the trigger pulse
6	Light connector	In total, four lights can be controlled individually
7	Trigger connector	For connection with an external trigger source such as a PLC, sensor or camera
8	Power	Turns the controller on/off



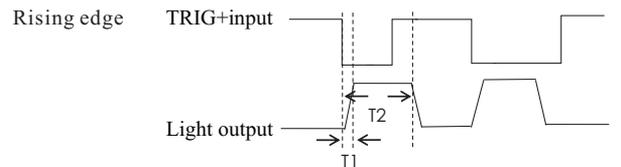
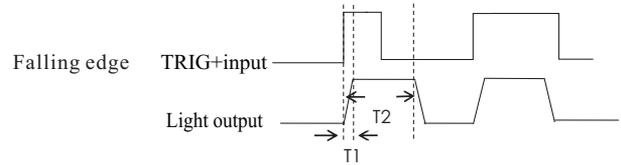
Connection Setup

- Step 1: Refer to right drawing on how to connect the light with the controller.
- Step 2: For external triggering, connect the external trigger source with the trigger port.
- Step 3: Connect the controller with an 100 - 240 V AC power source and switch the controller on. The digital display is lit. If the intensity of the light shall be controlled via PC, you need to connect the PC with an RS232 cable or Ethernet cable before the controller is switched on. Use the provided software or your own application to communicate with the controller. You can adjust the settings via the PC or manually.

Parameter Description

Item	Parameter	Description
Input voltage	100-240 V AC	50/60Hz
Output voltage	48 V	
External trigger	Power trigger	
Output pulse width	1 - 1023 μ s	Controlled by intensity adjustment key or via PC, each channel can be adjusted with a different value
Internal trigger	Yes	Controlled by intensity adjustment key or via PC, external trigger is disabled
Internal trigger pulse width	15 - 1000 ms	Controlled by intensity adjustment key or via PC, each channel can be adjusted with a different value
Short circuit protection	Yes	Protection shuts down the related channel and "ER2" appears on the display
Over current protection	Yes	When the current is over 10% of set value the related channel is shut down and "ER1" appears on the display
Max single CH output flash on	960W/CH	Only for 24 V lights with 10 mA to 1 A input
Total output flash on	1920W	
Communication	RS232	
Standby power consumption	\leq 3.4W	
Overvoltage resistance	1500 V AC, max. 1 minute	Leak current $<$ 10 mA
Insulation resistance	500 V DC	Insulation resistance $>$ 20 M Ω
Working temperature	-5 $^{\circ}$ C - 50 $^{\circ}$ C	
Size [mm]	91 x 132.41 x 171 mm	
Weight [kg]	1.1 kg	

Sequence Diagram

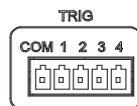


Instruction

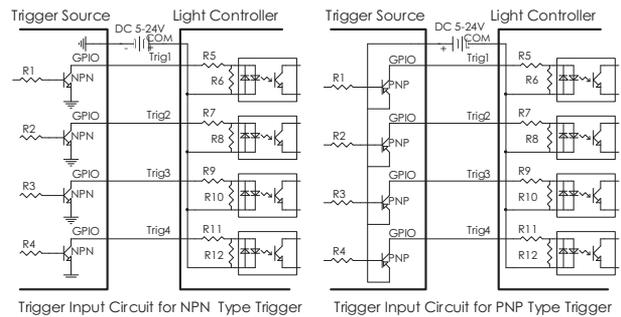
T1 is the trigger delay time while T2 is the width of the trigger pulse.
T1 80 μ s; T2 can be set from 1 to 1023 μ s

Trigger Port and Setup

The trigger mode of this type controller is level trigger, so the trigger mode can be achieved by high voltage trigger, low voltage trigger, rising edge trigger and falling edge trigger, and the connection COM port is the same in the controller. The high power trigger (input voltage range is 5V to 24V) and low power trigger (input voltage range is 0V-2V) is separated by the dual opto-couple inside. For the rising edge trigger and falling edge trigger, normally the delivered item is rising edge trigger, but it can be adjusted to falling edge trigger by the trigger switch key on the panel.



Wiring Diagram of Two Use Cases



Dimensions [mm]

